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July 22, 2003

Dale Olson  
U.S. Patent and Trademark Office  
2231 Crystal Drive  
Suite 910  
Arlington, VA 22202

**VIA FEDERAL EXPRESS**

U.S. Patent Application Serial No. 09/399,003  
Title: POLYMERASE ENHANCING FACTOR (PEF)  
EXTRACTS PEF PRPTEIN AND METHODS  
FOR PURIFYING AND IDENTIFYING  
Inventors: Holly H. HOGREFE et al.  
Filed: September 20, 1999  
Our Reference: 4121.0116-02000

Dear Mr. Olson:

Following your request by telephone on July 22, 2003, we enclose a substitute copy of page 46 of U.S. Application No. 09/399,003, which is identical to page 43 of U.S. Application 08/957,709, to which U.S. Application No. 09/399,003 claims benefit of priority.

If you have any questions, please contact us.

With best regards,

Sincerely,

Clifford E. Ford

RWM/CEF/nyf  
Enclosure

-46-

P45  
 Phagery1  
 EsQLi  
 HAEIN  
 Scerevisiae  
 swine  
 tomato  
 variola  
 ORFN2  
 Human  
 Rat  
 EI AV  
 consensus

1 MUDMDKIRLEILIEP'S EENQOP  
 1 TIGPKN MENTI EENQOP  
 1 -MKIDK N QDOP YKEFPPEYV  
 1 -MKIDK N QDSEI GNEFPEPYV  
 1 AT  
 1 SCS  
 1 SCS  
 1 MTASDKM VNIQLR AS TIVP NS  
 1 -MSVYKCVRANN IHEE NS  
 1 SJS  
 1 MFNNMINSPEV EDR KSPHFC  
 1 TEPSVKQLDHPENGIVPFYKNS  
 1 MAENOINSPEI  
 1 MFNNMINSPEV EDR KSPHFC  
 1 MECHITET QWV  
 1 PAISPSKRARPAEVGCOFRP  
 1 ORFN2  
 1 MPCSET...PAISPSKRARPAEVGCOFRP  
 1 ENTAEGC  
 1 DASRVEFG  
 1 ICNOADEAN KKEEMAYG  
 1 1 kls a lptas a  
 1 QIKERKEDD

		120	VDFYI	EFFV	TAS	EV	
P45	phager1	101	VTISK	CF	CFM	TT	-NDDRANGR111- R
	ECOLI	108	TOP	EPK	MIV	POA	-FNL EDFLA D- EDFCFH3 R- O
	HAEIN	108	KLEV	DRI	TCV	VPOA	-FNI EDFOC E- CSEFH3 K- Q
Scerevisiae	swine	104	ENFKGDRAQQLIKER	ADDAQVV	ADDAQVV	ADDAQVV	-A KSFES -
	tomato	100	ENHIVDRI	DRINC	I	FESEYY	-I BEE KC HD E- NSNSFGS
	variola	127	ENHIVDRI	DRQLIV	QVQVTE	QVQVTE	-EC DD S VEE SFEGST V
ORFN2		104	ENRITDRI	DK1QV	Y	KEY	-OSL S DE DCFGSTL R-
		104	ENRITDRI	DK1QV	Y	KEY	-OSL S DE DCFGSTL R-
Human		121	EDVTK	DR1QV	ICE	FYFE	-IEE QAL D- E- S IFGCS
Rat		160	EDVTK	DR1QV	ICE	FYFE	-IEE QAL D- E- S IFGCS
E1AV	cousensus	108	INIF	EFQNAQHILQ	N	WTSKILARYTAKQITOECPHCTKQGSGPAGCM	-EDKFGSTC
		201	1	Ik Gd1	aqif	rii pe i	v ld tdr9 99fgstg

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via FedEx on 7-23-03. D60

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